

UAB "LT Biotech"

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TC-100 Insect Medium, with L-Glutamine LTLM-B32

Dr. Gardiner and Dr. Stockdale developed TC-100 Insect medium in the mid-1970s by modifying Grace's medium. The purpose of the modification was to enhance the production of *Autographa californica* NPV virions by cells from the fall armyworm, *Spodoptera frugiperda*. TC-100 Insect medium can support the growth of cells derived from various lepidopteran species, including Sf9, when supplemented with 10% fetal bovine serum (FBS). This medium is primarily used for the production of baculoviruses in lepidopteran cell lines.

Applications:

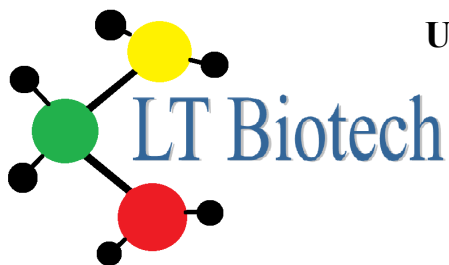
- Insect cell culture (e.g. Sf9)
- Production of Baculovirus

Product Specifications

Appearance	Clear yellow liquid
CO2 concentration, optimum	0.0%
Storage and shelf life	Store at +2°C to +8°C protected from light. Once opened, store at 4° C and use within 6-8 weeks.
Shipping conditions	Ambient

Formulation

Component	concentration mg/l
Amino Acids:	
Glycine	650.00
L-Alanine	225.00
L-Arginine HCl	700.00
L-Asparagine	350.00
L-Aspartic Acid	350.00
L-Cystine 2 HCl	25.00
L-Glutamic Acid	600.00
L-Glutamine	600.00
L-Histidine HCl H2O	3086.34
L-Isoleucine	50.00
L-Leucine	75.00
L-Lysine HCl	625.00
L-Methionine	50.00
L-Phenylalanine	150.00
L-Proline	350.00
L-Serine	550.00
L-Threonine	175.00
L-Tryptophan	100.00
L-Tyrosine disodium salt	62.09
L-Valine	100.00



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Component	concentration mg/l
Vitamins:	
Cholin Chloride	0.20
D-Biotin	0.01
D-Calcium Pantothenate	0.02
Folic Acid	0.02
Nicotinic Acid (Niacin)	0.02
Pyridoxine HCl	0.02
Riboflavin	0.02
Thiamine HCl	0.52
myo-Inositol	0.02
p-Amino Benzoic Acid	0.02
Inorganic Salts:	
CaCl ₂ 2 H ₂ O	1319.82
MgCl ₂	1068.20
MgSO ₄	1357.63
NaH ₂ PO ₄	876.92
KCl	2870.00
NaHCO ₃	350.00
Other Components:	
D-Glucose	1000.00
Tryptose Broth	2600.00

Precautions and Disclaimer

This product is for research use and further manufacturing only.